PATENT COOPERATION TREATY



From the INTERNATIONAL SEARCHING AUTHORITY

To: NOTIFICATION OF TRANSMITTAL OF G.E EHRLICH (1995) LTD. THE INTERNATIONAL SEARCH REPORT AND THE WRITTEN OPINION OF THE INTERNATIONAL 11 Menachem Begin Street received SEARCHING AUTHORITY, OR THE DECLARATION 52521 Ramat Gan ISRAEL. 18 AUG 2009 (PCT Rule 44.1) g.e. ehrlich (1995) LTD Date of mailing (day/month/year) 07/08/2009 Applicant's or agent's file reference FOR FURTHER ACTION 45945 See paragraphs 1 and 4 below International application No. International filing date (day/month/year) PCT/IL2009/000380 05/04/2009 Applicant TECHNION RESEARCH & DEVELOPMENT FOUNDATION LTD. The applicant is hereby notified that the international search report and the written opinion of the International Searching 1. X Authority have been established and are transmitted herewith. Filing of amendments and statement under Article 19: The applicant is entitled, if he so wishes, to amend the claims of the International Application (see Rule 46): The time limit for filing such amendments is normally two months from the date of transmittal of the International Search Report. Where? Directly to the International Bureau of WIPO, 34 chemin des Colombettes 1211 Ğeneva 20, Switzerland, Fascimile No.: (41-22) 338.82.70 For more detailed instructions, see the notes on the accompanying sheet. The applicant is hereby notified that no international search report will be established and that the declaration under Article 17(2)(a) to that effect and the written opinion of the international Searching Authority are transmitted herewith. With regard to the protest against payment of (an) additional fee(s) under Rule 40.2, the applicant is notified that: the protest together with the decision thereon has been transmitted to the International Bureau together with the applicant's request to forward the texts of both the protest and the decision thereon to the designated Offices. no decision has been made yet on the protest; the applicant will be notified as soon as a decision is made. 4. Reminders Shortly after the expiration of 18 months from the priority date, the international application will be published by the International Bureau. If the applicant wishes to avoid or postpone publication, a notice of withdrawai of the international application, or of the priority claim, must reach the International Bureau as provided in Rules 90bis.1 and 90bis.3, respectively,

Within 19 months from the priority date, but only in respect of some designated Offices, a demand for international preliminary examination must be filled if the applicant wishes to postpone the entry into the national phase until 30 months from the priority date (in some Offices even later); otherwise, the applicant must, within 20 months from the priority date, perform the prescribes

the public but not before the expiration of 30 months from the priority date.

before the completion of the technical preparations for international publication.

date (In some Offices even later); otherwise, the applicant must, within 20 months from the priority date, perform the prescribed acts for entry into the national phase before those designated Offices.

The applicant may submit comments on an informal basis on the written opinion of the International Searching Authority to the International Bureau. The International Bureau will send a copy of such comments to all designated Offices unless an international preliminary examination report has been or is to be established. These comments would also be made available to

In respect of other designated Offices, the time limit of 30 months (or later) will apply even if no demand is filed within 19 months.

See the Annex to Form PCT/IB/301 and, for details about the applicable time limits, Office by Office, see the PCT Applicant's Guide, Volume II, National Chapters and the WIPO Internet site.

Name and mailing address of the International Searching Authority

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Authorized officer

Cristina Sendroiu

NOTES TO FORM PCT/ISA/220

These Notes are intended to give the basic instructions concerning the filing of amendments under article 19. The Notes are based on the requirements of the Patent Cooperation Treaty, the Regulations and the Administrative Instructions under that Treaty. In case of discrepancy between these Notes and those requirements, the latter are applicable. For more detailed information, see also the *PCT Applicant's Guide*, a publication of WIPO.

In these Notes, "Article", "Rule", and "Section" refer to the provisions of the PCT, the PCT Regulations and the PCT Administrative Instructions, respectively.

INSTRUCTIONS CONCERNING AMENDMENTS UNDER ARTICLE 19

The applicant has, after having received the international search report and the written opinion of the international Searching Authority, one opportunity to amend the claims of the international application. It should however be emphasized that, since all parts of the international application (claims, description and drawings) may be amended during the international preliminary examination procedure, there is usually no need to file amendments of the claims under Article 19 except where, e.g. the applicant wants the latter to be published for the purposes of provisional protection or has another reason for amending the claims before international publication. Furthermore, it should be emphasized that provisional protection is available in some States only (see *PCT Applicant's Guide*, Volume I/A, Annexes B1 and B2).

The attention of the applicant is drawn to the fact that amendments to the claims under Article 19 are not allowed where the International Searching Authority has declared, under Article 17(2), that no international search report would be established (see *PCT Applicant's Guide*, Volume I/A, paragraph 296).

What parts of the international application may be amended?

Under Article 19, only the claims may be amended.

During the international phase, the claims may also be amended (or further amended) under Article 34 before the International Preliminary Examining Authority. The description and drawings may only be amended under Article 34 before the International Examining Authority.

Upon entry into the national phase, all parts of the international application may be amended under Article 28 or, where applicable, Article 41.

When?

Within 2 months from the date of transmittal of the international search report or 16 months from the priority date, whichever time limit expires later. It should be noted, however, that the amendments will be considered as having been received on time if they are received by the International Bureau after the expiration of the applicable time limit but before the completion of the technical preparations for international publication (Rule 46.1).

Where not to file the amendments?

The amendments may only be filed with the International Bureau and not with the receiving Office or the International Searching Authority (Rule 46.2).

Where a demand for International preliminary examination has been/is filed, see below.

How?

Either by cancelling one or more entire claims, by adding one or more new claims or by amending the text of one or more of the claims as filed.

A replacement sheet must be submitted for each sheet of the claims which, on account of an amendment or amendments, differs from the sheet originally filed.

All the claims appearing on a replacement sheet must be numbered in Arabic numerals. Where a claim is cancelled, no renumbering of the other claims is required. In all cases where claims are renumbered, they must be renumbered consecutively (Section 205(b)).

The amendments must be made in the language in which the international application is to be published.

What documents must/may accompany the amendments?

Letter (Section 205(b)):

The amendments must be submitted with a letter.

The letter will not be published with the international application and the amended claims. It should not be confused with the "Statement under Article 19(1)" (see below, under "Statement under Article 19(1)").

The letter must be in English or French, at the choice of the applicant. However, if the language of the international application is English, the letter must be in English; if the language of the international application is French, the letter must be in French.

NOTES TO FORM PCT/ISA/220 (continued)

The letter must indicate the differences between the claims as filed and the claims as amended. It must, in particular, indicate, in connection with each claim appearing in the international application (it being understood that identical indications concerning several claims may be grouped), whether

- (i) the claim is unchanged;
- (ii) the claim is cancelled;
- (iii) the claim is new;
- (iv) the claim replaces one or more claims as filed;
- (v) the claim is the result of the division of a claim as filed.

The following examples illustrate the manner in which amendments must be explained in the accompanying letter:

- [Where originally there were 48 claims and after amendment of some claims there are 51]:
 "Claims 1 to 29, 31, 32, 34, 35, 37 to 48 replaced by amended claims bearing the same numbers; claims 30, 33 and 36 unchanged; new claims 49 to 51 added."
- [Where originally there were 15 claims and after amendment of all claims there are 11]:
 "Claims 1 to 15 replaced by amended claims 1 to 11."
- [Where originally there were 14 claims and the amendments consist in cancelling some claims and in adding new claims]:
 "Claims 1 to 6 and 14 unchanged; claims 7 to 13 cancelled; new claims 15, 16 and 17 added." or
 "Claims 7 to 13 cancelled; new claims 15, 16 and 17 added; all other claims unchanged."
- 4. [Where various kinds of amendments are made]: "Claims 1–10 unchanged; claims 11 to 13, 18 and 19 cancelled; claims 14, 15 and 16 replaced by amended claim 14; claim 17 subdivided into amended claims 15, 16 and 17; new claims 20 and 21 added."

"Statement under article 19(1)" (Rule 46.4)

The amendments may be accompanied by a statement explaining the amendments and indicating any impact that such amendments might have on the description and the drawings (which cannot be amended under Article 19(1)).

The statement will be published with the international application and the amended claims.

It must be in the language in which the international application is to be published.

It must be brief, not exceeding 500 words if in English or if translated into English.

It should not be confused with and does not replace the letter indicating the differences between the claims as filed and as amended. It must be filed on a separate sheet and must be identified as such by a heading, preferably by using the words "Statement under Article 19(1)."

It may not contain any disparaging comments on the international search report or the relevance of citations contained in that report. Reference to citations, relevant to a given claim, contained in the international search report may be made only in connection with an amendment of that claim.

Consequence if a demand for international preliminary examination has already been filed

If, at the time of filing any amendments and any accompanying statement, under Article 19, a demand for international preliminary examination has already been submitted, the applicant must preferably, at the time of filing the amendments (and any statement) with the International Bureau, also file with the International Preliminary Examining Authority a copy of such amendments (and of any statement) and, where required, a translation of such amendments for the procedure before that Authority (see Rules 55.3(a) and 62.2, first sentence). For further information, see the Notes to the demand form (PCT/IPEA/401).

If a demand for international preliminary examination is made, the written opinion of the International Searching Authority will, except in certain cases where the International Preliminary Examining Authority did not act as International Searching Authority and where it has notified the International Bureau under Rule 66.1 bis(b), be considered to be a written opinion of the International Preliminary Examining Authority. If a demand is made, the applicant may submit to the International Preliminary Examining Authority a reply to the written opinion together, where appropriate, with amendments before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later (Rule 43bis.1(c)).

Consequence with regard to translation of the international application for entry into the national phase

The applicant's attention is drawn to the fact that, upon entry into the national phase, a translation of the claims as amended under Article 19 may have to be furnished to the designated/elected Offices, instead of, or in addition to, the translation of the claims as filed.

For further details on the requirements of each designated/elected Office, see the PCT Applicant's Guide, Volume II.

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference	FOR FURTHER	see Form PCT/ISA/220
45945	ACTION	as well as, where applicable, item 5 below.
International application No.	International filing date (day/month/	year) (Earliest) Priority Date (day/month/year)
PCT/IL2009/000380	05/04/2009	09/04/2008
Applicant		
		•
TECHNION RESEARCH & DEVELO	PMENT FOUNDATION LTD.	
This international search report has been according to Article 18. A copy is being tra	prepared by this International Search ansmitted to the International Bureau.	ing Authority and is transmitted to the applicant
This International search report consists o	f a total of sheet	ss.
X It is also accompanied by	a copy of each prior art document cit	ed in this report.
Basis of the report		
a. With regard to the language, the	international search was carried out o	on the basis of:
X the international a	pplication in the language in which it	was filed
a translation of the	e international application into mished for the purposes of internation	, which is the language nal search (Rules 12.3(a) and 23.1(b))
b. This International search		to account the rectification of an obvious mistake
	· ·	disclosed in the international application, see Box No. I.
	1 1 20 D N 10	*
2. Certain claims were fou	nd unsearchable (See Box No. II)	
3. Unity of invention is lack	king (see Box No III)	
4. With regard to the title,		
X the text is approved as su	bmitted by the applicant	
the text has been establis	hed by this Authority to read as follow	vs:
5. With regard to the abstract,		·
X the text is approved as su		is Authority as it appears in Box No. IV. The applicant
may, within one month fro	m the date of mailing of this internation	onal search report, submit comments to this Authority
6. With regard to the drawings,		
a. the figure of the drawings to be p	ublished with the abstract is Figure N	lo
as suggested by t	• •	
	s Authority, because the applicant fai	
	s Authority, because this figure better	r characterizes the invention
b. X none of the figures is to be	e published with the abstract	

International application No.

PCT/IL2009/000380

Вох	No. I	Nucleotide and/or amino acid sequence(s) (Continuation of item 1.b of the first sheet)
1.	With inven	regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed tion, the international search was carried out on the basis of:
	a.	type of material
		X a sequence listing
		table(s) related to the sequence listing
	b.	format of material
,	•	X on paper
		X in electronic form
	c.	time of filing/furnishing
	٠.	x contained in the international application as filed
		X filed together with the International application in electronic form
		furnished subsequently to this Authority for the purpose of search
2.		
۷.		In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
		application as filed of does not go beyond the application as filed, as appropriate, were furnished.
3.	Addit	onal comments:
		\cdot
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International application No PCT/IL2009/000380

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A. CLASS INV.	CO7K16/10 CO7K16/28			
According t	to International Patent Classification (IPC) or to both national class	sification and IPC		
	SEARCHED			
Minimum d CO7K	ocumentation searched (classification system followed by classifi	cation symbols)		
Documenta	ation searched other than minimum documentation to the extent th	at such documents are inclu	uded in the fields searched	
Electronic	data base consulted during the international search (name of data	has and where predicel	correla terme transi	
1	iternal, WPI Data, BIOSIS	rocco and, more previous,	search terms used)	
	ENTS CONSIDERED TO BE RELEVANT			
Category*	Citation of document, with indication, where appropriate, of the	relevant passages	Relevant to claim No.	••••
X	BIDDISON WILLIAM E ET AL: "Tax peptide/HLA-A2-specific Fabs ar receptors recognize nonidentica	nd T cell	1-17	
•	structural features on peptide/ complexes"	'HLA-A2	* * *	
	JOURNAL OF IMMUNOLOGY, AMERICAN ASSOCIATION OF IMMUNOLOGISTS, U vol. 171, no. 6,	JS,		1
	15 September 2003 (2003-09-15), 3064-3074, XP002461577 ISSN: 0022-1767 the whole document	pages		
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X Furti	her documents are listed in the continuation of Box C.	X See patent fam	nily annex.	
* Special c	categories of cited documents:	"T" later document publ	lighted offer the interpolitional filling date	
consid	ent defining the general state of the art which is not dered to be of particular relevance	or priority date and	lished after the international filing date d not in conflict with the application but d the principle or theory underlying the	
"E" earlier document but published on or after the International filling date "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone				
which citation	is cited to establish the publication date of another n or other special reason (as specified)	"Y" document of particu cannot be conside	re step when the document is taken alone alar relevance; the claimed invention red to involve an inventive step when the	
other r "P" docume	ent published prior to the international filling date but	ments, such comb in the art.	ined with one or more other such docu- ination being obvious to a person skilled	
	nan the priority date claimed actual completion of the international search		of the same patent family	
25	9 July 2009	07/08/2	009	
Name and n	mailing address of the ISA/ European Patent Office, P.B. 5818 Patentlaan 2	Authorized officer		
	NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Fax: (+31-70) 340-3016	Kalsner	. Inge	

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International application No PCT/IL2009/000380

		PC1/1L2009/000380
C(Continua	tion). DOCUMENTS CONSIDERED TO BE RELEVANT	
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	NOY R ET AL: "T-CELL RECEPTOR-LIKE ANTIBODIES: NOVEL REAGENTS FOR CLINICAL CANCER IMMUNOLOGY AND IMMUNOTHERAPY" EXPERT REVIEW OF ANTICANCER THERAPY, FUTURE DRUGS, LONDON, GB, vol. 5, no. 3, 1 June 2005 (2005-06-01), pages 523-536, XP009067037 ISSN: 1473-7140 abstract; table 1	1-17
X	DENKBERG G ET AL: "Recombinant antibodies with T-cell receptor-like specificity: Novel tools to study MHC class I presentation" AUTOIMMUNITY REVIEWS, ELSEVIER, AMSTERDAM, NL, vol. 5, no. 4, 1 April 2006 (2006-04-01), pages 252-257, XP024977451 ISSN: 1568-9972 [retrieved on 2006-04-01] abstract; table 1	1-17
A	WO 2004/084798 A (TECHNION RES & DEV FOUNDATION [IL]; REITER YORAM [IL]; COHEN CYRIL [IL) 7 October 2004 (2004-10-07) page 64 - page 89	1-17
A	COHEN CYRIL J ET AL: "Direct phenotypic analysis of human MHC class I antigen presentation: Visualization, quantitation, and in situ detection of human viral epitopes using peptide-specific, MHC-restricted human recombinant antibodies" JOURNAL OF IMMUNOLOGY, AMERICAN ASSOCIATION OF IMMUNOLOGISTS, US, vol. 170, no. 8, 15 April 2003 (2003-04-15), pages 4349-4361, XP002461576 ISSN: 0022-1767 the whole document	1-17
	DENKBERG G ET AL: "Recombinant human single-chain MHC-peptide complexes made from E. coli By in vitro refolding: functional single-chain MHC-peptide complexes and tetramers with tumor associated antigens" EUROPEAN JOURNAL OF IMMUNOLOGY, WILEY - V C H VERLAG GMBH & CO. KGAA, DE, vol. 30, no. 12, 1 December 2000 (2000-12-01), pages 3522-3532, XP002289070 ISSN: 0014-2980 abstract	1-17

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International application No PCT/IL2009/000380

Category*	Cilation of document, with Indication, where appropriate, of the relevant passages		Relevant to claim No.
A	KFIR OVED ET AL: "Antibody-mediated targeting of human single-chain class I MHC with covalently linked peptides induces efficient killing of tumor cells by tumor or viral-specific cytotoxic T lymphocytes" CANCER IMMUNOLOGY, IMMUNOTHERAPY, SPRINGER, BERLIN, DE, vol. 54, no. 9, 1 September 2005 (2005-09-01), pages 867-879, XP019333169 ISSN: 1432-0851 abstract	117	
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Information on patent family members

International application No PCT/IL2009/000380

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 2004084798 A	07-10-2004	CA 2519982 A1 EP 1606315 A2 JP 2006523453 T US 2005152912 A1 US 2004191260 A1 US 2006083735 A1	07-10-2004 21-12-2005 19-10-2006 14-07-2005 30-09-2004 20-04-2006